



Problem-Based Learning (PBL) Scenarios from Teachers Attending CRI Workshops

FCS and HST

Identifying food-borne illnesses and their prevention/ Explaining the importance of sanitation/Practicing personal hygiene in food poisoning

A customer experienced flu-like symptoms 12 hours after eating shrimp and steak at a Japanese restaurant. The restaurant had previously passed all health inspections. The food was prepared on the table in front of patrons, where the chef used a warm towel to sanitize his hands and wore a hat. The restaurant denies that the customer developed his symptoms from his meal. Your job, as the health inspector, is to determine the cause of the customer's illness, and provide a rationale for your findings.

Solution: This customer is responsible! Why? The restaurant menu warned customers, who do not order their meat well done, that they might contract a food borne illness. The customer ordered his steak *rare*. The internal temperature did not reach 140 degrees, and the customer was susceptible to salmonella bacteria.

BM&CE & FCS

Define the role of marketing and advertising in business/Understanding Nutrition/Food packaging and labeling

A new potato chip was recently introduced to the market. Someone died after eating the chips and the company is being sued. You are an FDA inspector, reporting to a jury about the death. How did the victim die? **Solution:** The chips were not labeled as being made in a plant that also processes peanuts and/or tree nuts. The victim died from a peanut allergy.

Behave ethically in the workplace



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BM &CE, FCS, HST, and TE&E

John has worked for ACME for 10 years and has been a model employee. He was employee of the month on 3 occasions. With no prior warning, John came to work and had a pink slip, saying that in two weeks his services would no longer be needed. You are John's attorney, and you are to investigate why John was fired? What laws could protect John? **Solution:** John was fired to make room for the company's owner's son.

At a small remodeling business, an estimator is embezzling money from every contract. The owner is not aware of the problem, but you, as a co-worker, do know what is going on. You respect the estimator because he is a good mentor and friend, but you know that what he is doing is wrong. How would you proceed? **Solution:** Allow students to generate their own solutions, and relate to lessons on business ethics.

Understand the Engineering & Design Process TE&E

You are driving your friends into town in your parent's van, and it starts to make a screeching noise. The car is also shaking. You remember that the noise started when you were accelerating. You quickly pull over to the side of the road. What is wrong with your mother's van? Is this something you did? **Solution:** New brakes, installed earlier in the day, were set too tight. (To solve the problem drive quickly and press on brake hard to stretch bands.)

Cosmetology

FCS

A crew of 10 (6 actors and 4 crew) have gathered on a remote island to film a reality show. They have agreed to be there without any outside communication for 4 weeks. There is an outbreak of pediculosis. What can be done to treat the problem? Students must find a cure to develop a treatment that will address the local, as well as general, conditions. **Solution:** Look up "pediculosis" to get started.